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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,224	07/01/2003	Chi-Chan Chiang	CHEP0024USA	1223
27765 7590 04/20/2007 NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			EXAMINER PHAM, THIERRY L	
			ART UNIT	PAPER NUMBER
			2625	

SHORTENED STATUTORY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE
3 MONTHS	04/20/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No.		Applicant(s)	
	10/604,224		CHIANG, CHI-CHAN	
	Examiner		Art Unit	
	Thierry L. Pham		2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>2/4/04</u> | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

- This action is responsive to the following communication: Nonprovisional application filed on 7/1/03.
- IDS filed on 2/4/04 has been considered and herein attached (PTO 1449) with Office Action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 11-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Young No (US 6587140).

Regarding claim 1, Young No discloses a printer (printer 5, fig. 1) comprising:

- a first housing (printer's housing, fig. 1);
- a printing module (print engine 44, fig. 1) installed on the first housing for printing data; and
- a controller (PC card 7, fig. 1) comprising:
 - a second housing (PC card's housing, fig. 7) that can be detached (removable PC card, fig. 1) installed on the first housing;
 - a processor (PC card's processor 90, fig. 2) installed in the second housing for processing programs and data; and
 - a display panel (PC card's display unit, fig. 3) installed on the second housing and electrically connected to the processor for displaying data.

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Regarding claim 2, Young No further discloses the printer of claim 1 wherein the controller further comprises a plurality of buttons (plurality of buttons, fig. 3) installed on the second housing for inputting control signals.

Regarding claim 3, Young No further discloses the printer of claim 1 wherein the controller further comprises a touch panel (touch panel, fig. 3) installed on the display panel for inputting control signals.

Regarding claim 4, Young No further discloses the printer of claim 1 wherein the first housing comprises a first connecting port (port 85, fig. 1), the second housing comprises a second connecting port (port 41, fig. 1), and the printer further comprises a wire (ref. 41, fig. 1) connected between the first connecting port and the second connecting port for electrically connecting the printing module to the processor of the controller.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5-6, 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Young No as described in claim 1, further in view of Reed (US 6426801).

Regarding claims 5 & 15, Young No fails to teach and/or suggest wherein first and second connecting port conform to the USB1.0 or USB2.0 standard.

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Reed, in the same field of endeavor for printing, teaches a well-known example of first and second connecting port conform to the USB1.0 or USB2.0 standard (USB, col. 4, lines 20-21).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify printer of Young No to include a USB connecting port as taught by Reed because of a following reason: (●) processing images from plurality of sources (e.g. flash memory card, USB port interface, and etc).

Therefore, it would have been obvious to combine Young No with Reed to obtain the invention as specified in claims 5 & 15.

Regarding claims 6 & 16, Reed further discloses the printer of claim 14 wherein the third connecting port conforms to IEEE1394 standard (col. 4, lines 30-32).

Regarding claim 14, Reed further teaches the printer of claim 1 wherein the second housing further comprises a third connecting port (fig. 4) for connecting an image input device.

Regarding claim 11, Young No further discloses the printer of claim 1 wherein the controller further comprises a storage device (DRAM or FLASH RAM, fig. 2, col. 4, lines 39-62) that can be detached installed on the second housing for storing data. Notes: Reed also teaches an example of detached memory devices.

Regarding claim 12, Young No further discloses the printer of claim 11 wherein the storage device is a read-only memory (EPROM 96, fig. 2).

Regarding claim 13, Young No further discloses the printer of claim 11 wherein the storage device is a flash memory (col. 4, lines 58-62).

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Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Young No as described in claim 1, further in view of Ozawa et al (US 6115137).

Regarding claim 7, Young No fails to teach and/or suggest wherein a wireless transmitting module for the printer and controller.

Ozawa, in the same field of endeavor for printing, teaches a well-known example of a wireless transmitting module for printer and controller (infrared communication interface for both printer and camera, figs. 1-3).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify printer of Young No to include a wireless transmitting module as taught by Ozawa because of a following reason: (●) implementing a wireless transmitting module is to reduce hardware costs (e.g. cables) and to provide more efficient communication protocol (e.g. portability).

Therefore, it would have been obvious to combine Young No with Ozawa to obtain the invention as specified in claim 7.

Regarding claims 8-10, Ozawa further teaches the printer of claim 7 wherein the first transmitting module and the second transmitting module utilize the IEEE 802.1b WLAN protocol, Bluetooth, infrared (fig. 1-3, Bluetooth and WLAN communication protocols are well known and widely available in the art).

Conclusion

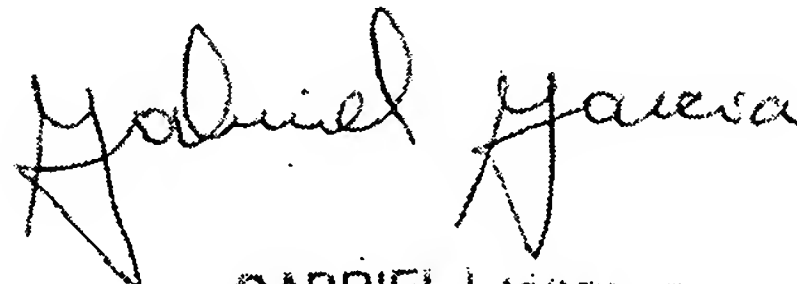
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thierry L. Pham whose telephone number is (571) 272-7439. The examiner can normally be reached on M-F (9:30 AM - 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on (571)272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thierry L. Pham


GABRIEL I. GARCIA
PRIMARY EXAMINER